

In re Application of: Daphne ATLAS et al  
Serial No.: 10/522,766  
Filed: February 27, 2006  
Office Action Mailing Date: January 22, 2009

2

Examiner: FINN Meghan R.  
Group Art Unit: 1614  
Attorney Docket: 29287

In the Claims:

1. (Currently amended) A method of treating multiple sclerosis, the method comprising administering to a subject in need thereof a therapeutically effective amount of a compound, wherein said compound is N-acetyl cysteine amide (compound J) or N-acetyl cysteine ethyl ester (compound A) ~~said compound having: (a) a combination of molecular weight and membrane miscibility properties for permitting said compound to cross the blood brain barrier of the organism; (b) a readily oxidizable chemical group for exerting antioxidation properties; and (c) a chemical make up for permitting said compound or its intracellular derivative to accumulate within the cytoplasm of cells.~~

2. (Currently Amended) The method of claim 1, wherein said compound is N-acetyl cysteine amide (compound J) ~~or an ester pro-drug thereof.~~

3-6. (Canceled)

7. (Currently Amended) A method for treating multiple sclerosis in an individual in need thereof, the method comprising administering to the individual a therapeutically effective amount of N-acetyl cysteine amide (compound J) ~~or an ester pro-drug thereof~~ N-acetyl cysteine ethyl ester (compound A).

8.-9. (Canceled)

10. (Currently Amended) The method of claim 7, wherein said individual is administered a therapeutically effective amount of N-acetyl cysteine amide (compound J) ~~pro-drug comprises an ester moiety which is removable by hydrolysis imposed by intracellular esterases.~~

11.-19. (Canceled)